

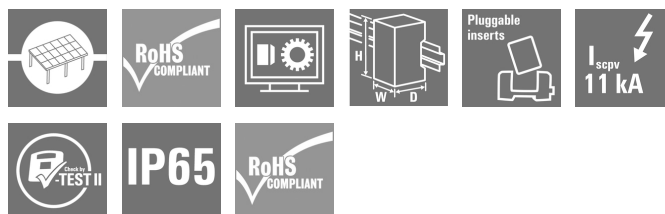
PVC DC 1IF 10 2MPP SPD1R CG 10**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



PV Next combiner boxes for inverters with 1 to 12 MPP trackers are used to protect the DC side of a photovoltaic system. The combiner boxes protect the inverter against overvoltages and thus comply with the European Directive CLC/TS 51643-32. In addition, these products offer the possibility to protect the system against reverse currents and the possibility to combine strings to save cables during installation.

General ordering data

Version	Photovoltaics, Combiner Box, PV Next, 2 MPP's, 1 Input / 1 Output per MPP, Surge protection I / II, With fuse holder, 1000 V
Order No.	8000137870
Type	PVC DC 1IF 10 2MPP SPD1R CG 10
GTIN (EAN)	4099987194181
Qty.	1 pc(s).
Replacement parts	2530530000

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Technical data

Dimensions and weights

Depth	132 mm	Depth (inches)	5.197 inch
Depth with add-on components	132 mm	Width	200 mm
Width (inches)	7.874 inch	Net weight	2,731 g

Temperatures

Ambient temperature	-20 °C...50 °C	Humidity	5...95 %, no condensation
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Guarantee

Time interval	5 years
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Electrical characteristics

Current per Maximum Power Point, max. 20 A

Rated DC voltage			1,000 V
Rated short-term current resistance	Rated current	25 A	

Enclosure

Cover	with cover	Enclosure attachment	Via mounting feet
Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262	Insulating material	Polyester glass-fibre reinforced, Polycarbonate
Protection class	II	Type of mounting	Wall mounting

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
Standards	EN 61643-31		

Inputs

Amount of maximum power points (MPP)	2		
Cartridge fuse	10 x 38 mm		
Functional earth connector	Cable entry	Number of cable entries	1
Fuse type	Empty fuse holder		
Fuse-link standard	gPV (EN 60269-6)		
Fused poles of string	+/-		
Max. number of DC inputs	per Maximum Power Point 1 input		
Number of string inputs per MPP	1		
Number of inputs	1		

Outputs

Max. number of DC outputs	per Maximum Power Point 1 output
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Surge protection DC side

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 kA
Lightning test current I_{imp} (10/350 μ s)	6.25 kA	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1,000 V
PV system voltage, max. U_{cpv}	1,000 V	Protection level U_p (+/-, -/PE, +/-PE)	≤ 3.8 kV
Protection level U_p (+/-)	≤ 3.8 kV	Protection level U_p (+/PE)	≤ 3.8 kV
Protection level U_p (-/PE)	≤ 3.8 kV	Requirements class	Type I/II
Short-circuit current I_{scpv}	11 kA	Standards	EN 61643-31
Standby power consumption P_c	<0.2 W	Surge protection DC side	1000 V type I + II
Total discharge current I_{total} (8/20 μ s)	50 kA	Total discharge current I_{total} (10/350 μ s)	12.5 kA

DC load break switch

Switch disconnecter execution	no switch	Voltage type	DC
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Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	EC003857	ECLASS 9.0	22-57-92-03
ECLASS 9.1	22-57-02-90	ECLASS 10.0	22-57-02-90
ECLASS 11.0	22-57-02-92	ECLASS 12.0	22-57-02-92
ECLASS 13.0	22-57-02-92	ECLASS 14.0	22-57-02-92
ECLASS 15.0	22-57-02-92		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

Approvals

Approvals



ROHS

Conform

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www.weidmueller.com**Technical data****Downloads**

Approval/Certificate/Document of Conformity

[Declaration fo conformity PV Next](#)

Engineering Data

[Schematic diagram](#)

User Documentation

[Manual PV Next String Combiner Box](#)

White paper

[Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt](#)[Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert](#)[Fact Sheet DE PV CB Wann Sicherungen zu installieren sind](#)[Fact Sheet DE CB PV NEXT](#)[Fact Sheet EN PV CB When DC fuses are mandatory to install](#)[Fact Sheet EN CB PV NEXT](#)[Fact Sheet EN PV How to protect buildings against lightning strikes](#)[Fact Sheet EN PV How to extend the life time of a Combiner Box](#)[Fact Sheet EN PV Combiner Box earthing](#)[Fact Sheet DE PV Combiner Box Erdung](#)

Catalogues

[Catalogues in PDF-format](#)

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Drawings



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Type	VPU PV I+II O 1000 E	Version
Order No.	2530530000	Surge voltage arrester, Low voltage, Accessories, Surge protection I /
GTIN (EAN)	4050118540741	II, Spare arrester
Qty.	9 pc(s).	